



HP LaserJet IIP *plus* Printer

Getting Started Guide

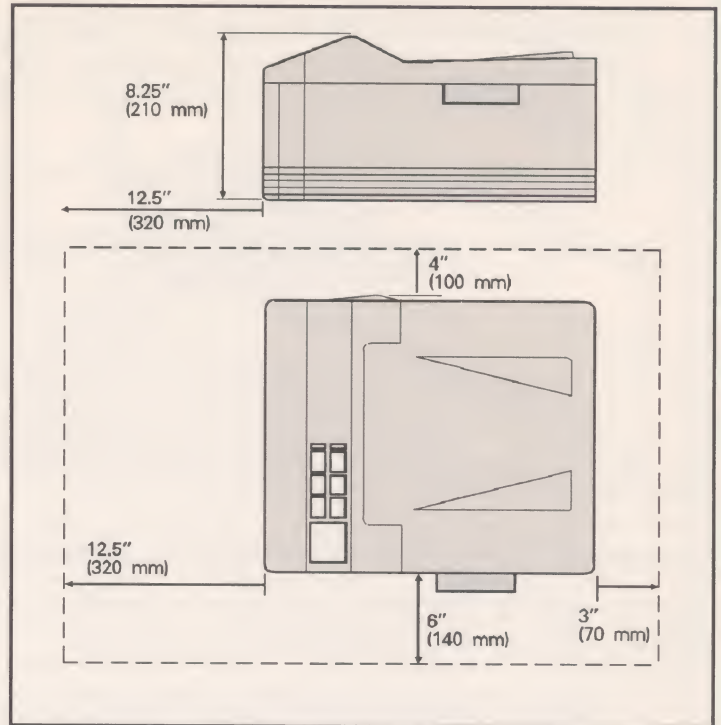
Use
Me
First!



Prepare a Location and Unpack Your Printer

Your location requirements are:

- a sturdy, level surface the size of the printer with clearance as shown at right.
- the temperature is maintained between 50° and 90.5° F (10° to 32.5° C).
- relative humidity stays between 20% and 80%.
- a stable environment - no abrupt temperature or humidity changes.
- no exposure to direct sunlight or chemicals.
- line voltage varies no more than 100 to 115V \pm 10%
220 to 240V \pm 10%.
- a well-ventilated room.

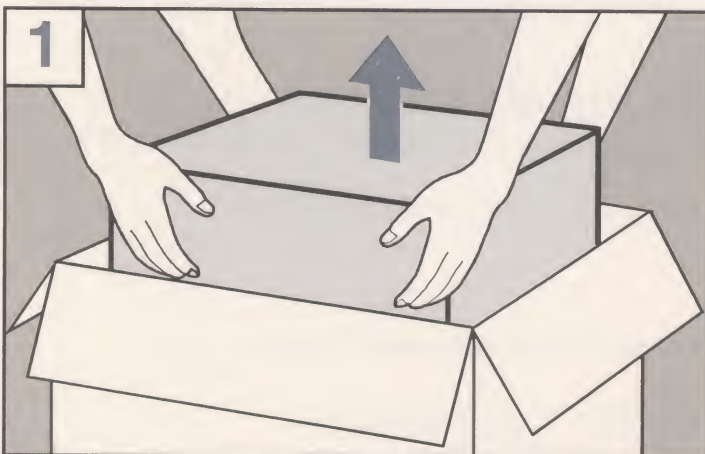


Caution

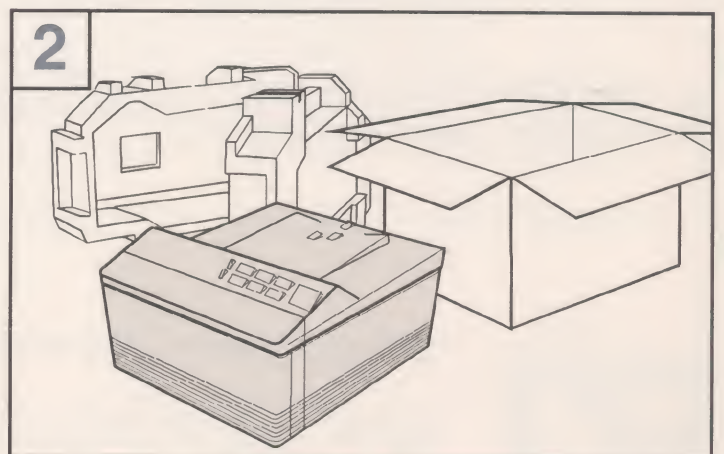
The printer weighs approximately 25 pounds (11.3 kilograms). We recommend that you have someone help you unpack it.

Note

Make sure that the printer is placed on a hard and flat surface to prevent frequent paper jams.



Remove the printer and accessories.



Save the packing materials for repackaging or shipping the printer.



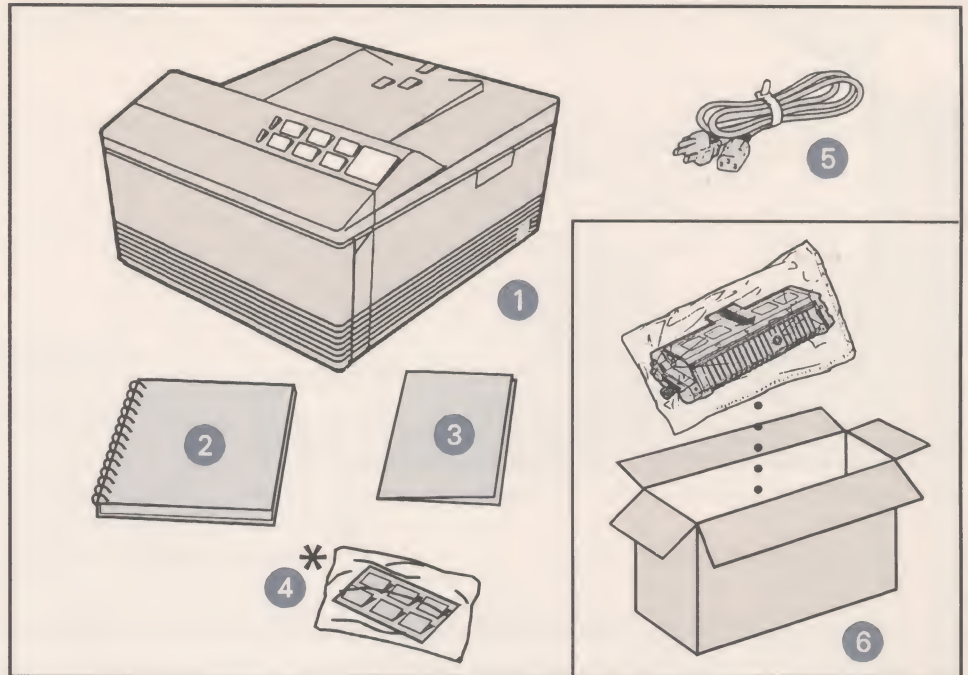
Package Contents

Locate each item listed below:

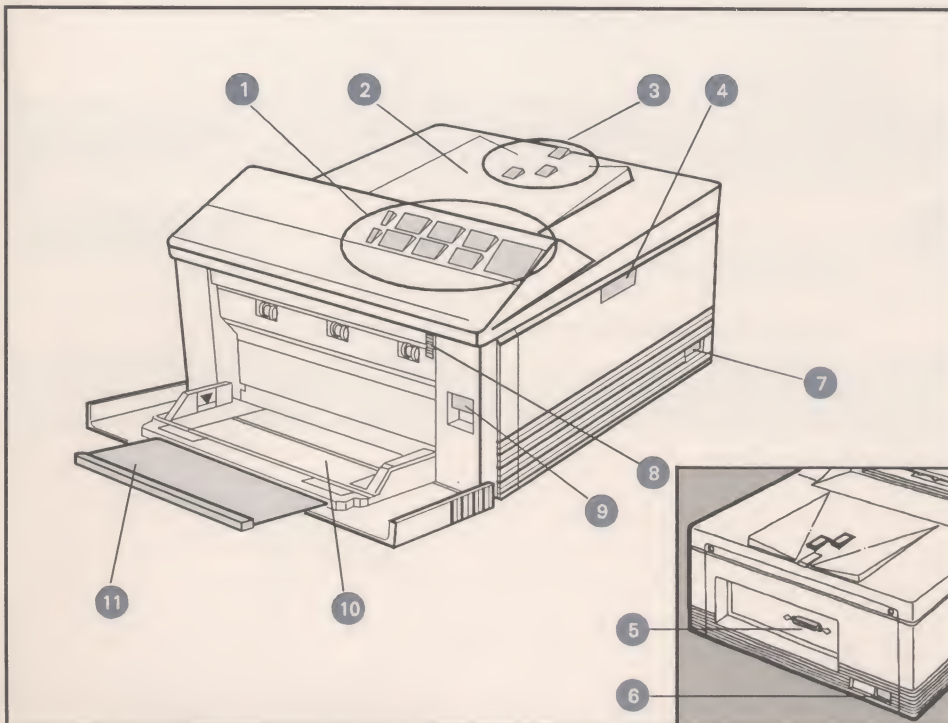
- ☐ 1. HP LaserJet IIP *plus* printer
- ☐ 2. *HP LaserJet IIP plus User's Manual*
- ☐ 3. Supplies and Accessories Brochure
- ☐ 4. Control Panel overlay (International only)*
- ☐ 5. Power cord
- ☐ 6. Toner (EP-L) Cartridge (packaged separately)

Interface cables are sold separately.

Notify your Hewlett-Packard Dealer immediately if any parts are missing or damaged



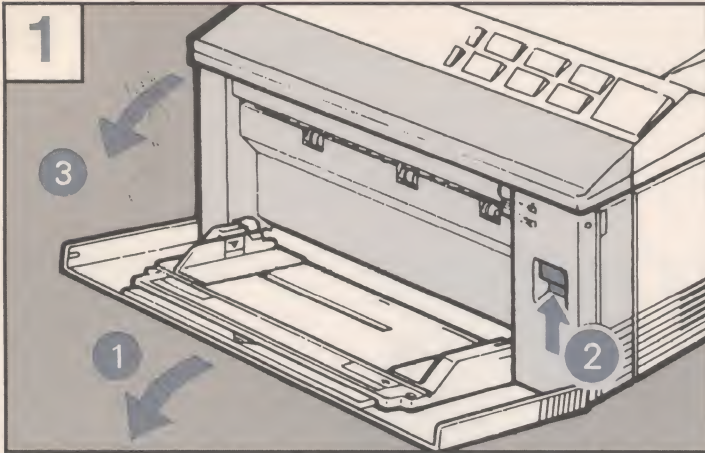
Identify Printer Parts



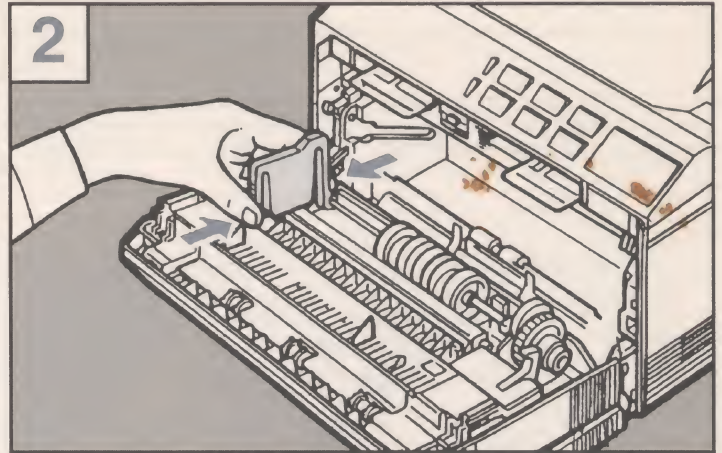
- 1. Control panel
- 2. Top output tray
- 3. Paper stops
- 4. Font cartridge door
- 5. Parallel Interface port
- 6. Power cord receptacle
- 7. ON/OFF power switch
- 8. Output tray selector button
- 9. Paper path door release button
- 10. Multi-Purpose (MP) tray
- 11. MP tray extended

C

Remove Internal Packing Material



Pull open MP tray (1). Push up release button (2) and pull down paper path door (3).

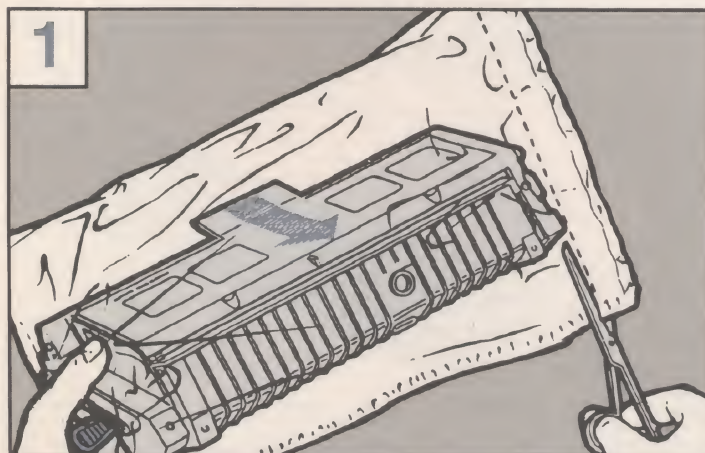


Squeeze and remove the orange packing spacer from inside the printer. Save the packing spacer for possible future shipping.

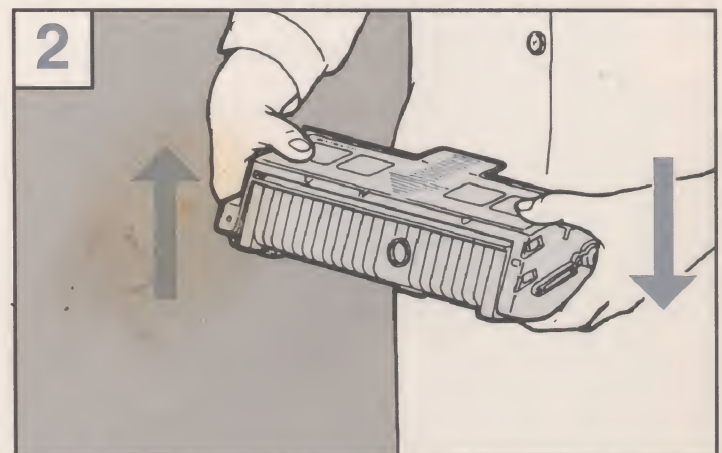
D

Unpack the Toner Cartridge

- **CAUTION:** Do not stand cartridge on end or turn it upside down after it has been unpacked.
- **CAUTION:** Do not expose the cartridge to direct sunlight. Do not expose it to room light for more than a few minutes.



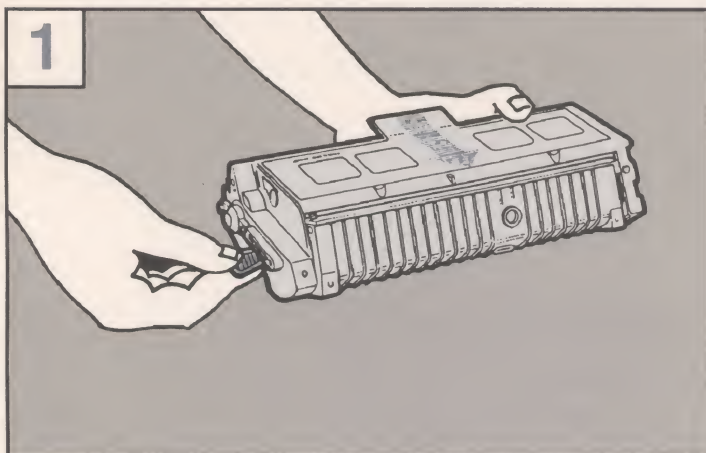
Locate the toner (EP-L) cartridge and remove it from its bag. Save the bag for possible storage.



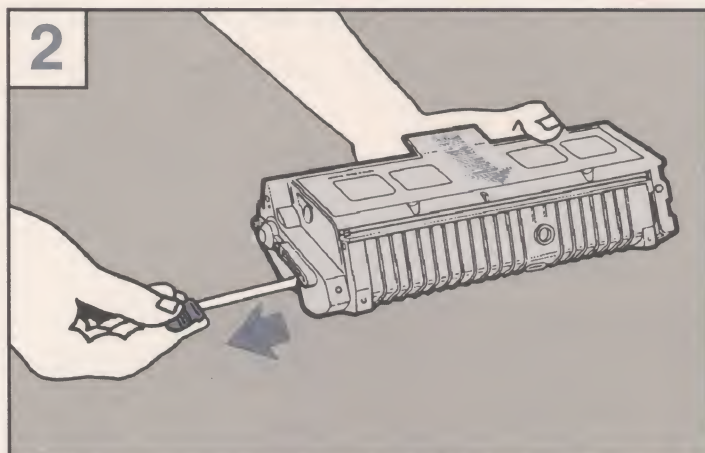
Rock the cartridge slowly from end to end 5 times to distribute the toner.



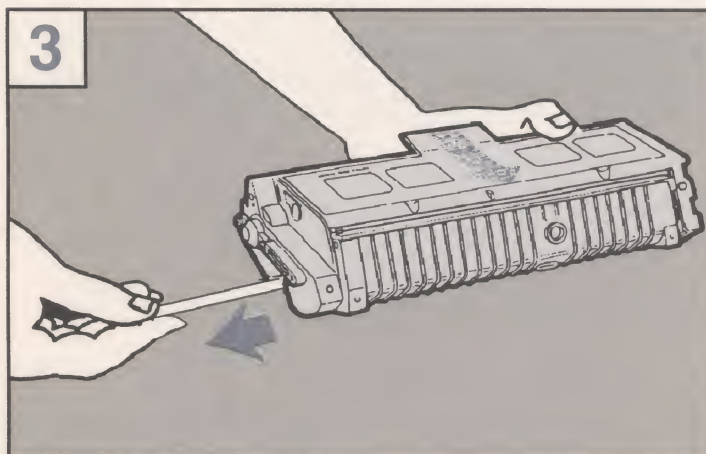
Install the Toner Cartridge



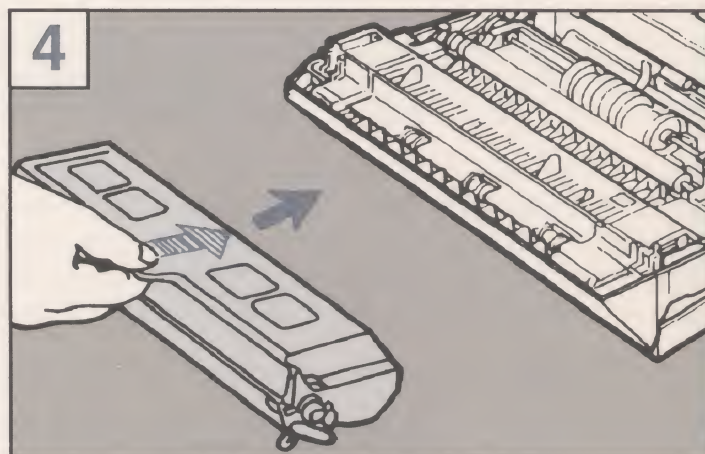
1
Firmly grasp the orange tab on the side of the cartridge.



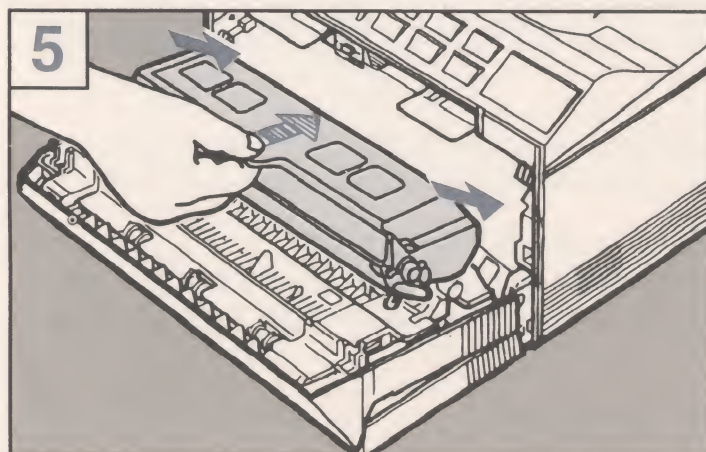
2
Pull firmly to remove the 18 inch (45.7 cm) long strip of sealing tape. Discard the tape.



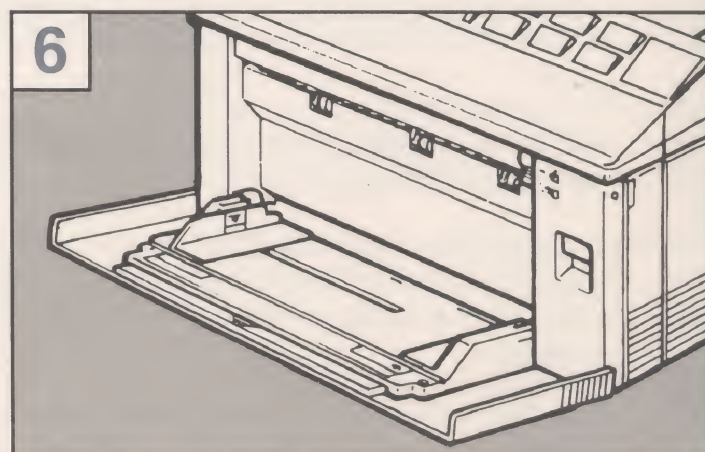
3
If the tab separates from the tape, pull the tape out.



4
Hold the cartridge with the green arrow pointing toward the printer.



5
Holding the tab, line up the green arrows and slide the cartridge down into the printer.

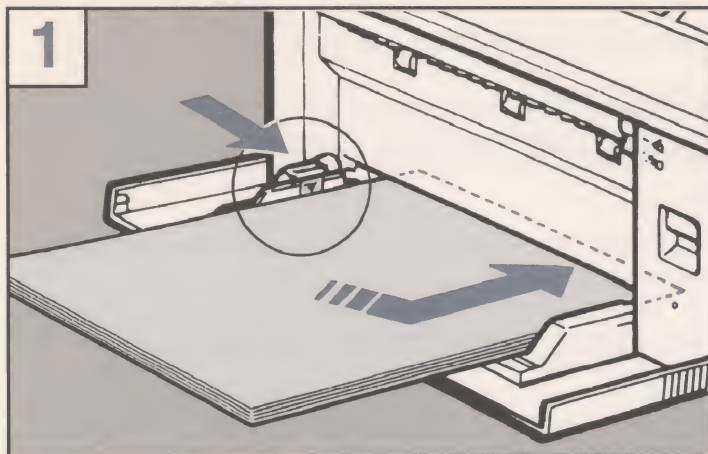


6
Close the paper path door, but leave the MP tray open.

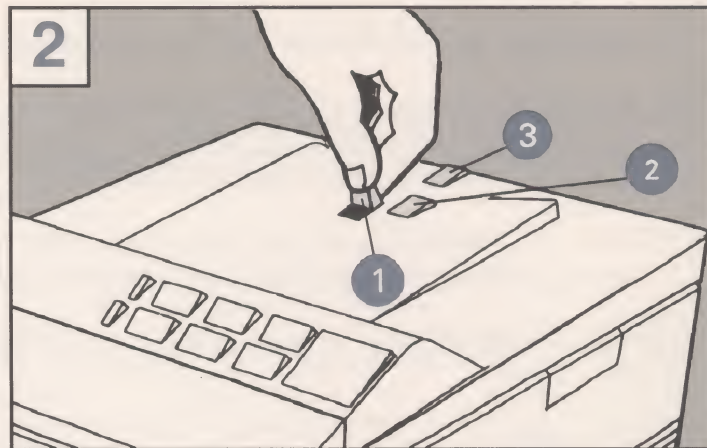


Load Paper and Attach Power Cord

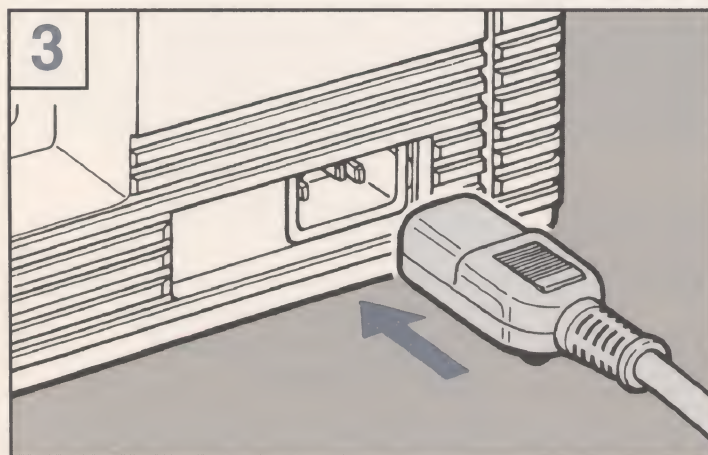
Refer to appendix E, "Selecting Paper and Other Print Media," in the *HP LaserJet IIP plus Printer User's Manual*.



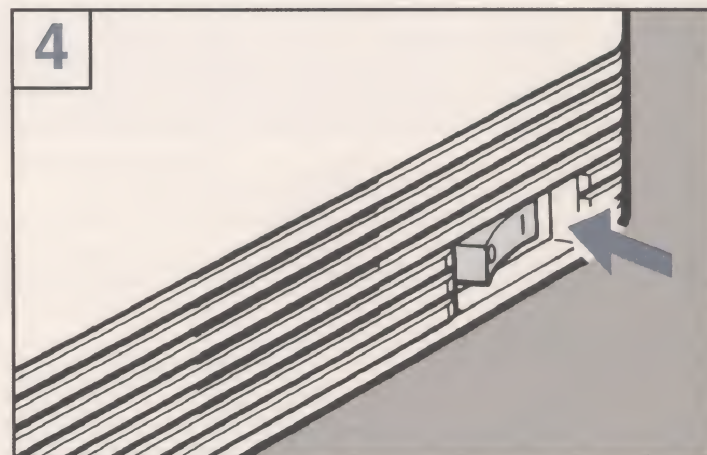
1 Place the paper forward in the tray and firmly against the right guide.



2 Flip up and click into place the appropriate paper stop. (1=Letter and Executive 2=A4 3=Legal)



3 Connect the power cord. Plug the other end into a power outlet.

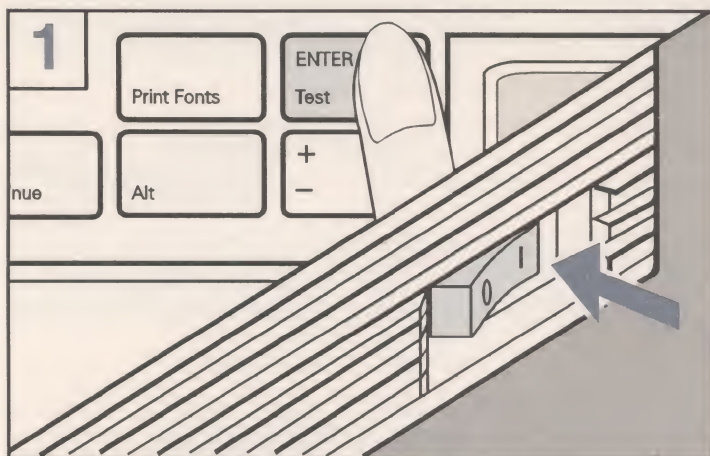


4 Turn the printer ON by depressing the I on the ON/OFF switch.

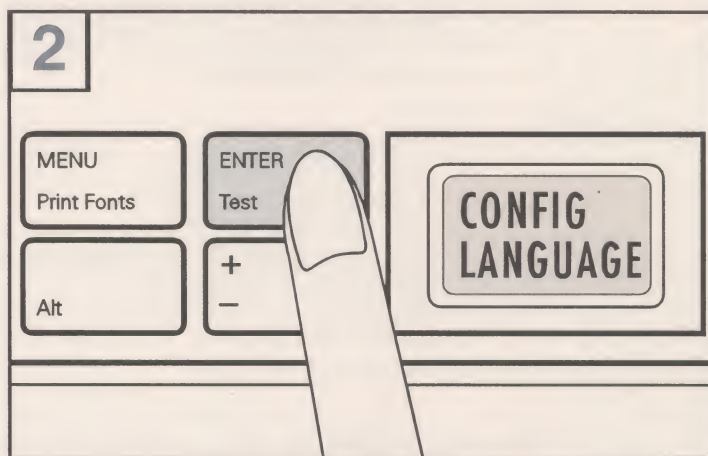


Select Display Message Language

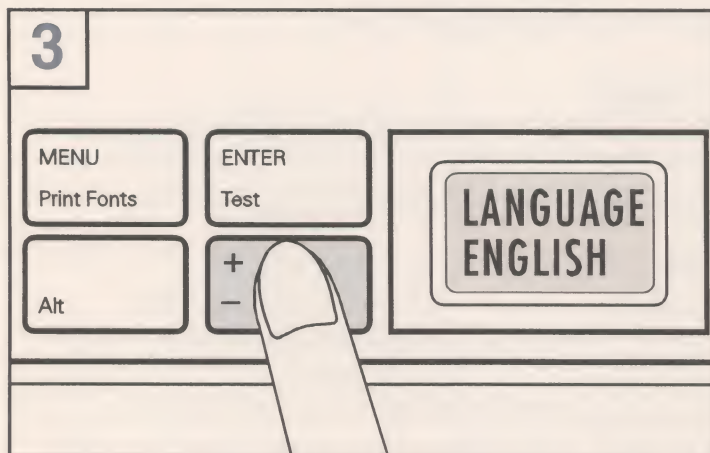
Follow these directions if you want to change display language from English. If not, skip to section H.



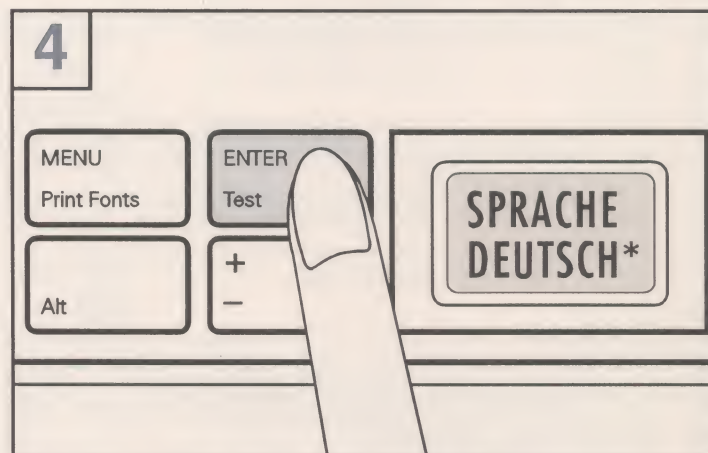
Turn the printer OFF. Hold down the **ENTER** key while turning the printer back ON.



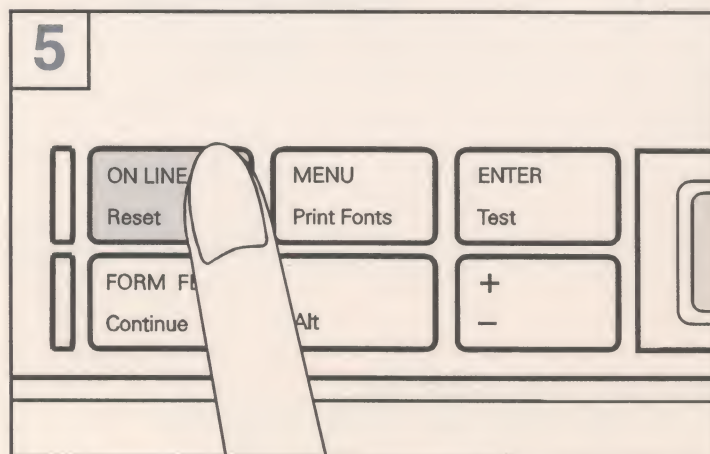
Wait until CONFIG LANGUAGE appears. Release the **ENTER** key. 05 SELF TEST appears.



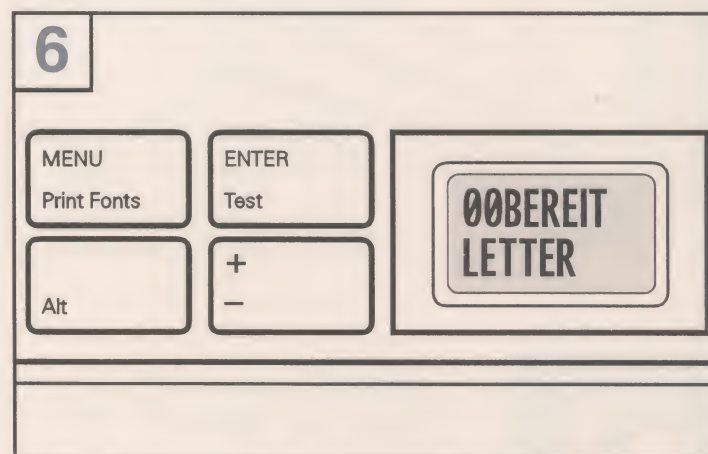
Wait for LANGUAGE ENGLISH to appear. Press the **+/-** key to choose your language.



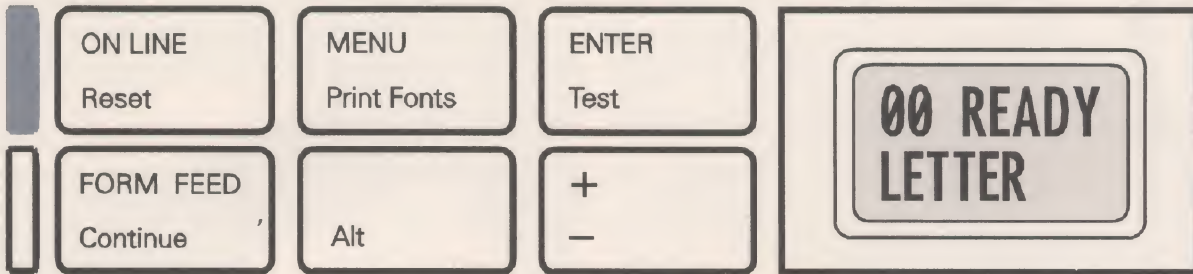
Click the **ENTER** key to save your language selection. An * will appear.



Click the **ON LINE** key to return on-line. The On-Line indicator will come on.



Your display messages will now be in the language you selected.



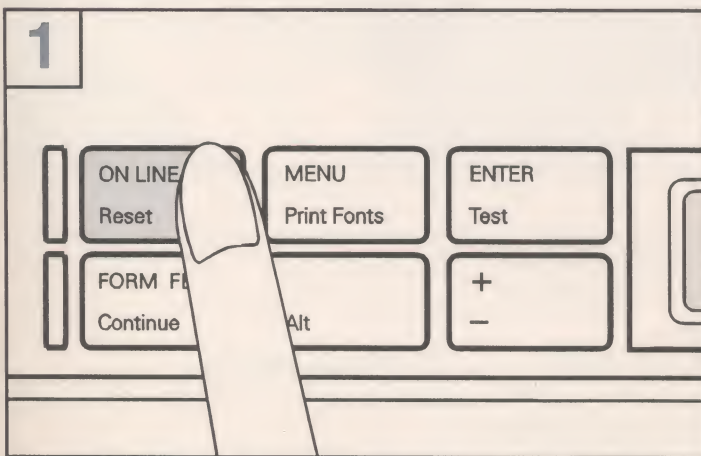
After the 05 SELF TEST and 02 WARM UP messages, make sure the On-Line indicator is lit and the display window shows 00 READY LETTER or (00 READY A4).

NOTE

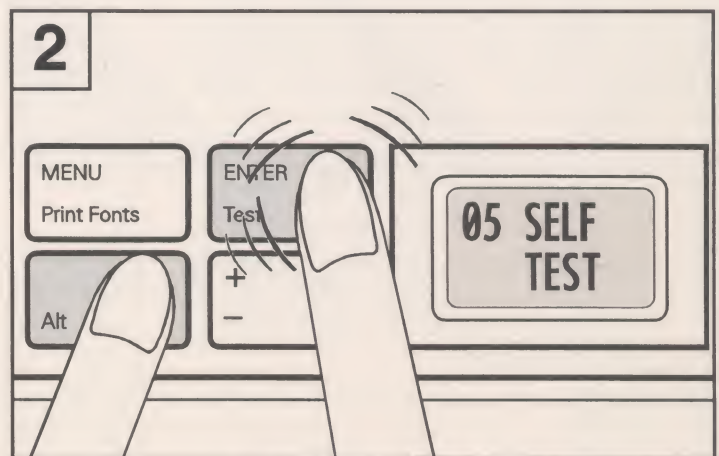
00 READY or (00 READY A4) should be displayed on the control panel. If printer is turned on with paper not loaded, MP LOAD LETTER or (MP LOAD A4) will appear in the display window. Load paper. If an error message is displayed, refer to the *HP LaserJet IIP plus User's Manual* chapter 9 for possible solutions. If problem persists, contact either your internal support organization, your HP dealer, or call the Hewlett-Packard Personal Peripherals Assist Line.



Print a Self Test and Generate Cleaning Paper



Click the **ON LINE** key to take the printer off-line. The On-Line indicator goes off.







While holding down the **Alt** key, click the **Test** key. The display will show 05 SELF TEST.

(continue section H on back side)

Figure 1-1 shows a simplified keyboard layout for the HP LaserJet 4000 series. The layout includes a numeric keypad on the left with buttons 1-9, 0, and *, and a function row with MENU, ENTER, and a large PRINT TEST button. The main keyboard area contains buttons for Print Fonts, Test, an Alt key, and a +/- key. The PRINT TEST button is highlighted with a thick border.

After a few moments, 06 PRINT TEST will appear in the display.

NOTE

If 04 SELF TEST appears, click the  key to stop the continuous self test. Up to 6 more pages will print. Then hold down the  key and CLICK the  key. DO NOT hold down the  key.

[illegible]

Two pages will print. The first sheet is a SELF TEST printout.

5

FOR DETAILS, REFER TO THE MAINTENANCE CHAPTER IN YOUR USER'S MANUAL

--- CLEANING PAPER ---

Preparation:

1. If additional paper is required to maintain the maximum level of the paper.
2. Place this paper into the slot in the top of the paper tray in the top of the
3. Add another sheet of paper.

Figure 5. Cleaning Paper


Figure 5. Paper Insert

The second sheet is printer generated cleaning paper. (If you did not receive two self test pages, refer to chapter 9 in the *HP LaserJet IIP plus User's Manual*.)

Use Printer Generated Cleaning Paper

The cleaning paper cleans toner from the printer's internal parts.

1



A top-down view of the scanner's paper input tray. A stack of papers is being inserted into the tray. A large blue arrow points to the right, indicating the direction of paper insertion. The scanner's internal rollers and guides are visible.

Place the cleaning paper face-up in the MP tray on top of the paper stack. Run another SELF TEST. (While holding down the **Alt** key, click the **Test** key.)

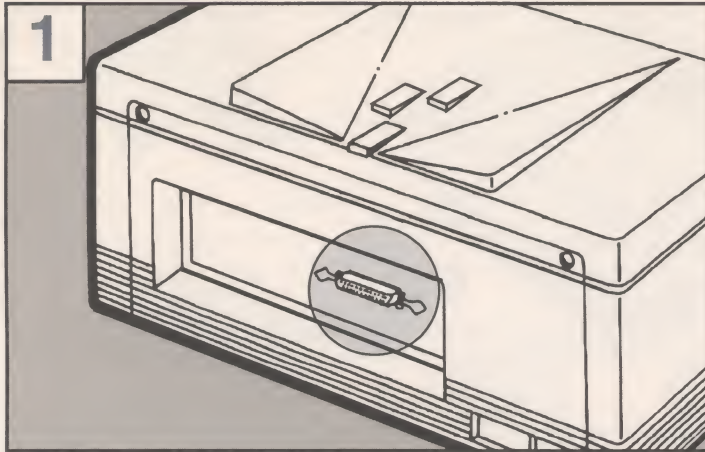
[illegible]

The first page should be on the back of the original cleaning paper. If it is, the internal parts have been cleaned.

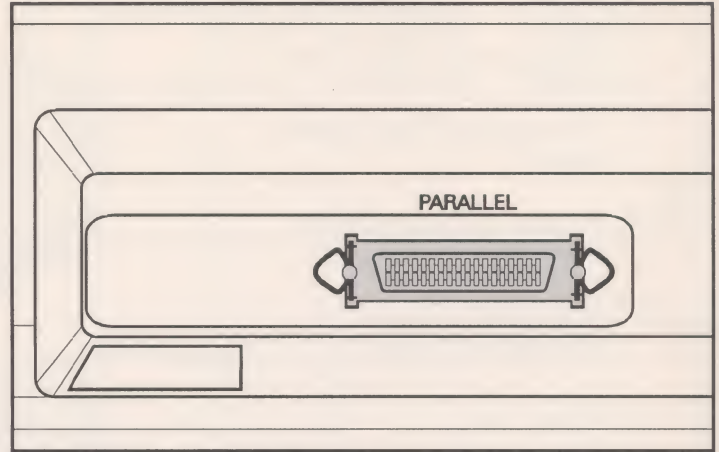


Centronics Parallel Interface

CAUTION: ENSURE THAT THE PRINTER AND THE COMPUTER ARE TURNED "OFF" BEFORE CONNECTING ANY CABLES



Locate the interface port at the rear of the printer.



Close-up view of the printer parallel interface port.

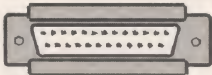

Your computer communicates with your printer through an interface (sometimes called a "port"). Refer to your computer's user documentation to determine the location and kinds of interfaces your computer has, or consult your dealer. Your HP LaserJet IIP *plus* printer provides a Centronics parallel interface.

For the HP Vectra Personal Computer, the interface card part numbers are:

Centronics parallel interface - HP24540B

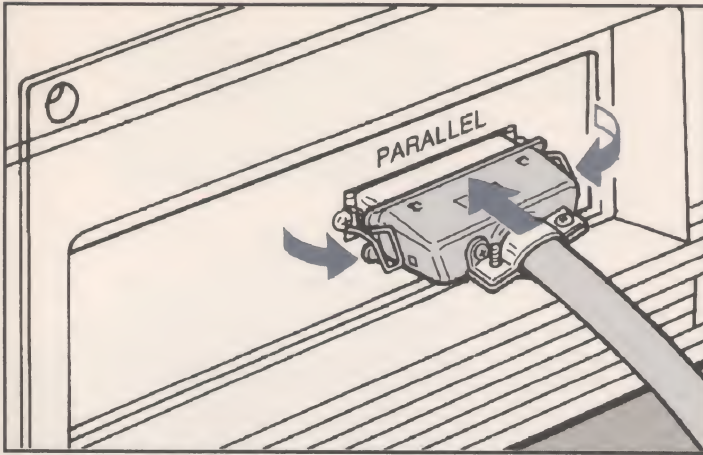
For computers other than the HP Vectra, contact your dealer for interface information.

A typical parallel cable looks like this:

Computers	Computer End	Parallel Cable		Printer End
HP Vectra IBM PC/AT/XT/PS2 and most IBM compatibles Compaq		HP Part Number	Length	
	25 Pin Male Plug	HP 92284A	6.6' (2.0 m)	36 Pin Male Plug



Set Up to Use a Centronics Parallel Interface Cable



1. Make sure your computer and printer are turned **OFF**.
2. Plug the cable into your computer and your printer. You should rock the connector onto the printer to ensure the cable is *fully* seated.
3. Use the wire clips to help secure the cable to your printer.
4. Turn your computer and printer **ON**.
5. Follow the steps below to verify the printer configuration settings.

After installing the Centronics parallel cable, use wire clips to help secure it.

Centronics Parallel Interface Configuration Verification

Your printer is set at the factory for parallel communication. Follow these steps to verify the Centronics parallel configuration settings.

Step	Click:	Printer Displays:
1	ON LINE	00 READY LETTER or 00 READY A4 (The On-Line indicator goes off.)
2	MENU repeatedly until...	DEVICE CONFIG
3	ENTER	AUTO CONT OFF*
4	MENU	I/O PARALEL*
5	ON LINE	00 READY LETTER (The On-Line indicator comes on.)

An asterisk (*) indicates an item has been selected and saved.

NOTE

You may want to run a 05 SELF TEST and keep the printout as a record of your configuration. (Refer to section H.)



Edit Your AUTOEXEC.BAT File

This section and section **M** apply only to DOS users. (If you do not work in a DOS environment, you must read your computer's operating system manual for instructions on how to enter the printer configuration through your own operating system. Skip to section **N**.)

You must modify your AUTOEXEC.BAT file so that the computer knows what printer port you are using and can send data to the printer. The MODE statement, or statements, contain the information needed by the computer.

PARALLEL

MODE LPT1 : , , P
(Use B instead of P for MS-DOS 4.0 or above)

(The ports can be LPT1, or LPT2)

You can use any word processing package to edit your AUTOEXEC.BAT file. (Make a backup copy of AUTOEXEC.BAT before you modify it.) Be sure you treat the file as unformatted ASCII text. For example, in WordPerfect you would use the *Text-in Text-out* feature. In Microsoft Word, you would SAVE the file using the *Text-only* option. You could also use the DOS editor EDLIN. See your software manual for more information.

Sample AUTOEXEC.BAT File with MODE statement for PARALLEL configuration entered after PATH statement.

```
ECHO OFF
C:\MOUSE1\mouse
C:\MOUSE1\cpanel
PROMPT $P$G
PATH C:\;C:\DOS;C:\BAT;C:\WORD5;
MODE LPT1:,,P
CD\NETWORK
USRLOAD /A
C:
CD\
```

Your AUTOEXEC.BAT file may not look exactly like these examples. Computers are set up differently.

If you successfully added your MODE statement, Skip to section **N**.



Edit Your AUTOEXEC.BAT File

This section applies only to DOS users who do not have another method to edit their AUTOEXEC.BAT file. If you do not work in a DOS environment, skip to section N.

For DOS users, the AUTOEXEC.BAT file is used to set up the communication link between the computer and printer. When you enter the printer configuration (for example, LPT1) into this file, the computer knows what port to send data to.

The following procedure:

- Verifies you have an AUTOEXEC.BAT file.
- Prepares the computer to accept printer configuration commands.
- Inputs the MODE statement in your AUTOEXEC.BAT file.

If you have MS-DOS 4.0 or above, substitute the P with a B in the parallel MODE statement. (MODE LPT1:,,B)

Step	WHAT to do:	HOW to do it:	Computer Displays:
1	Select your root directory	Type: CD\ <input type="button" value="ENTER"/>	A:\> or B:\> or C:\>
2	Make a backup copy of your AUTOEXEC.BAT file	Type: COPY AUTOEXEC.BAT AUTOEXEC.LJ <input type="button" value="ENTER"/>	1 file(s) copied
3	Review your AUTOEXEC.BAT file	Type: TYPE AUTOEXEC.BAT <input type="button" value="ENTER"/>	Your AUTOEXEC.BAT file. (If you don't have one, skip to Step 5.)
4	Look for a MODE statement in the file. If the correct statement is there, continue with section N. (If there is an incorrect MODE statement, you cannot use this procedure to edit your AUTOEXEC.BAT file.)		
5	Look for the MODE.COM in your root directory. If you can't find it, check in subdirectories on your computer, or on your original DOS disks.	Type: DIR *.COM <input type="button" value="ENTER"/>	A list of files with the .COM extension.
6	If MODE.COM appears in the directory listing, skip to Step 9a		
7a	If MODE.COM does not appear in the root directory listing, copy it from your DOS disks to your root directory	IF YOU HAVE A HARD DRIVE: Insert the "startup" DOS disk in drive A and type: COPY A:MODE.COM <input type="button" value="ENTER"/>	1 file(s) copied
7b		IF YOU HAVE A TWO-FLOPPY SYSTEM: Insert the "startup" DOS disk in drive B and the "bootup" DOS disk in drive A then type: COPY A:MODE.COM B: <input type="button" value="ENTER"/>	1 file(s) copied
7c		IF YOU HAVE A SINGLE FLOPPY SYSTEM: Insert the "startup" DOS disk in drive A and type: COPY A:MODE.COM B: <input type="button" value="ENTER"/>	1 file(s) copied

Edit Your AUTOEXEC.BAT file (continued)

Step	WHAT to do:	HOW to do it:	Computer Displays:
8	Remove the DOS diskette from the computer		
9a	List your PATH statement	Type: PATH	Your PATH statement
9b	If NO PATH appears go to Step 10		
9c	If a PATH statement appears, copy it to LJMODE	Type: PATH>LJMODE	PATH>LJMODE
10	Enter the MODE statement for PARALLEL.	Type: ECHO MODE LPT1: , , P>>LJMODE LPT1: , , B (for MS-DOS 4.0 or above)	ECHO MODE LPT1: , , P>>LJMODE
11	Verify your LJMODE file	Type: TYPE LJMODE	Your LJMODE file
12	If your MODE statement or statements contain a mistake, go back to Step 9a		
13	Insert the mode statements in your AUTOEXEC.BAT file	Type: COPY LJMODE+AUTOEXEC.LJ AUTOEXEC.BAT ENTER	1 file(s) copied
14	Verify that your AUTOEXEC.BAT file is correct	Type: TYPE AUTOEXEC.BAT	Your AUTOEXEC.BAT file
15	Delete the temporary LJMODE file	Type: DEL LJMODE ENTER	Your root prompt
16	Reboot your computer	Hold down the Ctrl key and the Del key and the Alt key at the same time	1) A blank screen 2) Your computer prompt 3) Infinite retry on parallel printer time-out *

† If you need to recover your original AUTOEXEC.BAT file later, type: COPY AUTOEXEC.LJ AUTOEXEC.BAT

* This is not an error message. This message confirms your parallel mode statement has been entered properly.



Verify Communication Between the Computer and Printer

To Verify Communication Between MS-DOS and Your Printer:

1. Make sure your computer and printer are turned on and your printer is on-line.
2. At the MS-DOS prompt, type DIR>PRN and press **ENTER**. The computer will send a list of files from the root directory to your HP LaserJet IIP *plus* and the **Form Feed** indicator will light to indicate the printer has received this data.
3. Press the **ONLINE** key to take the printer off-line and press the **FORM FEED** key to eject the last page. The root directory should have printed, if not see the table below.
4. Press the **ONLINE** key to put the printer back on-line in preparation to receive more data.

Problems with printing the root directory

SYMPTOM	PROBLEM	SOLUTION
An error message appears when you reboot the computer. After you type DIR>PRN Write fault error writing device Abort, Retry, Ignore, Fail? appears.	You entered the wrong MODE statement or your MODE statement contains an error.	Type A and press ENTER. Then go back to section M and carefully re-enter the MODE statement, checking to make sure each character is correct.
Your printer doesn't print the root directory list and the root prompt appears on the computer.	Your MODE statement directs your data to the wrong port.	Go back to section M and carefully re-enter the MODE statement, checking to make sure each character is correct.

If you have problems with your printer, refer to chapter 9 in the *HP LaserJet IIP plus User's Manual* for help.

Congratulations - You're Done!

You should **SAVE** this document for future reference.

You can now configure your software to work with your new HP LaserJet IIP *plus* printer. Now install any accessories, such as the Optional Lower Cassette or Memory Boards (see the accessory's installation instructions).

Notes